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1 [A survey of top-k query processing techniques in relational database](#)  
 Ihab F. Ilyas, George Beskales, Mohamed A. Soliman  
 October 2008 Computing Surveys (CSUR) . Volume 40 Issue 4  
 Publisher: ACM

Full text available: Pdf (2.02 MB) Additional Information: [full citation](#), [abstract](#), [...](#)

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Efficient processing of top-k queries is a crucial requirement in many int involve massive amounts of data. In particular, efficient top-k processin multimedia search, and distributed ...

Keywords: Top-k, rank aggregation, rank-aware processing, voting

2 [Index-driven similarity search in metric spaces \(Survey Article\)](#)  
 Gisil R. Hjaltason, Hanan Samet  
 December 2003 Transactions on Database Systems (TODS) . Volume 28 I  
 Publisher: ACM

Full text available: Pdf (650.64 KB) Additional Information: [full citation](#), [abstract](#), [...](#)

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Similarity search is a very important operation in multimedia databases involving complex objects, and involves finding objects in a data set  $S$  based on some similarity measure. ...

Keywords: Hierarchical metric data structures, distance-based indexing range queries, ranking, similarity searching

3 [Identifying Crosscutting Concerns Using Fan-In Analysis](#)  
 Marius Marin, Arie Van Deursen, Leon Moonen  
 December 2007 Transactions on Software Engineering and Methodolo  
 Publisher: ACM

Full text available: Pdf (1.76 MB) Additional Information: [full citation](#), [abstract](#), [...](#)

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Aspect mining is a reverse engineering process that aims at finding cros systems. This article proposes an aspect mining approach based on det called from many different places, and hence have a high ...

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**Keywords:** Aspect-oriented programming, crosscutting concerns, fan-i

4 [Making database systems usable](#)

 H. V. Jagadish, Adriane Chapman, Aaron Elkiss, Magesh Jayapandian, Yuny June 2007 SIGMOD '07: Proceedings of the 2007 ACM SIGMOD international conference on database management systems

Publisher: ACM


Full text available:  Mov (71:41 MIN),  Pdf (366.14 KB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 131, Downloads (12 Months): 948, Citations: 0



Database researchers have striven to improve the capability of a database performance and functionality. We assert that the *usability* of a database capability. In this paper, we study why database systems ...

**Keywords:** database, usability, user interface

5 [Communications of the ACM: Volume 51 Issue 3](#)

 March 2008 Communications of the ACM

Publisher: ACM


Full text available:  Digital Edition ,  Pdf (7.56 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 437, Downloads (12 Months): 1224, Citations: 0

6 [Automated creation of a forms-based database query interface](#)

August 2008 Proceedings of the VLDB Endowment , Volume 1 Issue 1


Publisher: VLDB Endowment

Full text available:  Pdf (583.55 KB) Additional Information: [full citation](#), [abstract](#), [full text](#)



Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citations: 0

Forms-based query interfaces are widely used to access databases today. The design of a query interface is often a key step in the deployment of a database. Each form of expressing only a very limited range of queries. ...

7 [Communications of the ACM: Volume 51 Issue 10](#)

 October 2008 Communications of the ACM

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (7.16 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 11068, Downloads (12 Months): 11068, Citations: 0

8 [Information fusion for wireless sensor networks: Methods, models, and applications](#)

 Eduardo F. Nakamura, Antonio A. F. Loureiro, Alejandro C. Frery, September 2007 Computing Surveys (CSUR) , Volume 39 Issue 3

Publisher: ACM

Full text available:  Pdf (1.20 MB) Additional Information: [full citation](#), [abstract](#), [full text](#)

Bibliometrics: Downloads (6 Weeks): 471, Downloads (12 Months): 3966, Citations: 0

Wireless sensor networks produce a large amount of data that needs to

assessed according to the application objectives. The way these data are aggregated across nodes is a fundamental issue. Information fusion arises ...

**Keywords:** Information fusion, architectures and models, data aggregation, sensor networks

9 [Astrolabe: A robust and scalable technology for distributed system monitoring and data mining](#)



Robbert Van Renesse, Kenneth P. Birman, Werner Vogels

May 2003 Transactions on Computer Systems (TOCS), Volume 21 Issue 1  
Publisher: ACM

Full text available: Pdf (341.62 KB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

**Bibliometrics:** Downloads (6 Weeks): 55, Downloads (12 Months): 355, Citations: 1

Scalable management and self-organizational capabilities are emerging as a result of the generation of large-scale, highly dynamic, distributed applications. We have designed a distributed information management system called Astrolabe. ...

**Keywords:** Aggregation, epidemic protocols, failure detection, gossip, scalability

10 [Communications of the ACM: Volume 51 Issue 7](#)



July 2008 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition, Pdf (6.54 MB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

**Bibliometrics:** Downloads (6 Weeks): 4818, Downloads (12 Months): 4818, Citations: 1

11 [Optimized stratified sampling for approximate query processing](#)



Surajit Chaudhuri, Gautam Das, Vivek Narasayya

June 2007 Transactions on Database Systems (TODS), Volume 32 Issue 2  
Publisher: ACM

Full text available: Pdf (748.77 KB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

**Bibliometrics:** Downloads (6 Weeks): 43, Downloads (12 Months): 234, Citations: 1

The ability to approximately answer aggregation queries accurately and efficiently is a key requirement for many data mining and decision support tools. In contrast to previous sampling methods, we treat the problem as an optimization problem where, ...

**Keywords:** Random sampling, approximation, query processing

12 [Dynamic data fusion for future sensor networks](#)



Umakishore Ramachandran, Rajnish Kumar, Matthew Wolenetz, Brian Coopey, Shin, Philip Hui, Anubhav Paul

August 2006 Transactions on Sensor Networks (TOSN), Volume 2 Issue 3  
Publisher: ACM


Full text available: Pdf (2.44 MB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

**Bibliometrics:** Downloads (6 Weeks): 28, Downloads (12 Months): 362, Citations: 1

DFuse is an architectural framework for dynamic application-specified d bridges an important abstraction gap for developing advanced fusion ap account the dynamic nature of applications and sensor ...

**Keywords:** Sensor network, data fusion, energy awareness, in-network platform, role assignment

- 13 [MRNet: A Software-Based Multicast/Reduction Network for Scalable](#)  
Philip C. Roth, Dorian C. Arnold, Barton P. Miller  
November 2003 SC '03: Proceedings of the 2003 ACM/IEEE conference on S  
Publisher: IEEE Computer Society


Full text available:  Pdf (176.52 KB) Additional Information: full citation, abstract, r

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 19, Citation (

We present MRNet, a software-based multicast/reduction network for bi and system administration tools. MRNet supports multiple simultaneous communication operations. MRNet is flexible, allowing tool ...

**Keywords:** Scalability, tools, multicast, reduction, aggregation


- 14 [Communications of the ACM: Volume 51 Issue 2](#)


 February 2008 Communications of the ACM  
Publisher: ACM

Full text available:  Digital Edition ,  Pdf (3.89 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 359, Downloads (12 Months): 2379, Cita

- 15 [Design and evaluation of a wide-area event notification service](#)

 Antonio Carzaniga, David S. Rosenblum, Alexander L. Wolf  
August 2001 Transactions on Computer Systems ( TOCS ) , Volume 19 Issu  
Publisher: ACM

Full text available:  Pdf (1.08 MB) Additional Information: full citation, abstract, f  
review


Bibliometrics: Downloads (6 Weeks): 46, Downloads (12 Months): 280, Citatio

The components of a loosely coupled system are typically designed to o responding to asynchronous events. An event notification service is an i infrastructure that supports the construction ...

**Keywords:** content-based addressing and routing, event notification, p

- 16 [Fast detection of communication patterns in distributed executions](#)


Thomas Kunz, Michiel F. H. Seuren  
November 1997 CASCON '97: Proceedings of the 1997 conference of the C Collaborative research  
Publisher: IBM Press


Full text available:  Pdf (4.21 MB) Additional Information: full citation, abstract, f

Bibliometrics: Downloads (6 Weeks): 57, Downloads (12 Months): 649, Citatio

Understanding distributed applications is a tedious and difficult task. Vis time diagrams are often used to obtain a better understanding of the ex visualization tool we use is Poet, an event ...

17 Global grid monitoring: the EGEE/WLOG case

 Alexandre Nobrega Duarte, Piotr Nycz, Antonio Retico, Domenico Vicinar  
June 2007 GMW '07: Proceedings of the 2007 workshop on Grid monitoring  
Publisher: ACM


Full text available:  Pdf (307.31 KB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)


Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 134, Citation

Grids have the potential to revolutionize computing by providing ubiquit computational services and resources. However, grid systems are extre to failures. In this paper we present a tool able to to ...

Keyw ord s: EGEE, WLOG, grid monitoring, service availability monitorin

18 Semi-automated discovery of application session structure

 Jayanthkumar Kannan, Jaeyeon Jung, Vern Paxson, Can Emre Koksal  
October 2006 I MC '06: Proceedings of the 6th ACM SIGCOMM conference o  
Publisher: ACM


Full text available:  Pdf (278.77 KB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)



Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 82, Citation

While the problem of analyzing network traffic at the granularity of indi considerable previous work and tool development, understanding traffic of user-initiated sessions comprised ...

Keyw ord s: anomaly detection, application sessions, traffic analysis


19 Communications of the ACM: Volume 51 Issue 8

 August 2008 Communications of the ACM  
Publisher: ACM

Full text available:  Digital Edition ,  Pdf (6.85 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 971, Downloads (12 Months): 1562, Cita

20 Schema modelling for automatic generation of multimedia presentati

 Augusto Colantano, Ombretta Gaggi  
July 2002 SEKE '02: Proceedings of the 14th international conference on knowledge engineering  
Publisher: ACM

Full text available:  Pdf (169.46 KB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 30, Citation

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